MILITARILY CRITICAL TECHNOLOGY LIST
MASTER LOCATOR

This master locator lists the militarily critical technology areas for the Militarily Critical Technology List. Not all technologies are listed in both Weapons Systems Technologies and Developing Critical Technologies.

WEAPONS SYSTEMS TECHNOLOGIES (WST)

Technologies whose technical performance parameters are at or above the minimum level necessary to ensure continuing superior performance of U.S. military systems.

DEVELOPING CRITICAL TECHNOLOGIES (DCT)

Technologies that will produce increasingly superior performance of military systems or maintain a superior capability more affordably.

	WST	DCT
Acoustic Sensors, Air and Terrestrial Platform	15.1	17.1
Acoustic Sensors, Marine Platform	15.4	17.4
Acoustic Sensors, Marine, Active Sonar	15.2	17.2
Acoustic Sensors, Marine, Passive Sonar	15.3	17.3
Advanced Diesel Engines	6.1	9.1
Advanced Fabrication and Processing	10.1	12.1
Advanced Hull Forms		13.5
Aerodynamics	1.2	1.1
Aeronautical Design and Systems Integration	1.3	1.6
Aeronautical Propulsion	1.2	1.2
Aeronautical Structures	1.1	1.3
Aeronautical Subsystems and Components		1.5
Aeronautical Vehicle Control	7.1	1.4
Anti-matter Particle Beam		6.3
Armor and Anti-Armor Materials	11.1	14.1
Battlespace Environment		2.6
Bearings	10.2	12.2
Biological Energy Systems		7.4
Biological Sensors	3.2	3.2
Biomaterials and Nanofabrication		3.3
Charged Particle Beam		6.1
Chemical Defense Systems	3.1	5.1
Chemical Detection, Warning, and Identification	3.2	5.4
Chemical Dissemination and Dispersion		5.2

	WST	DCT
Chemical Material Production		5.3
Computer-Aided Design and Computer-Aided Manufacturing (CAD/CAM)	8.2	
Defeat or Management of Biological/Chemical Attacks		4.2
Demilitarization and Decontamination		2.14
Electrical Materials	11.2	14.2
Electromagnetic Effects		20.5
Electronic Attack	9.1	
Electronic Components	5.1	8.1
Electronic Fabrication	5.3	8.3
Electronic Materials	5.2	8.2
Electronic Protection	9.2	
Electronics and Computers	17.1	19.2
Electro-Optical Sensors	15.5	17.5
Energetic Materials	2.3	2.9
Energy Conversion and Power Generation		7.1
Energy Storage		7.2
Etiological Factors		4.1
Gamma Ray Lasers		6.4
General Purpose Electronics Equipment	5.4	
Gravity Meters and Gravity Gradiometers	15.6	16.2
Guidance and Control		2.5
Guns, Artillery, and Other Launch Systems	2.5	2.4
Hard Target Penetration	18.1	20.2
High Density Conventional Systems	14.1	
High Power Microwave/Radio Frequency Waves		6.6
Human Performance Enhancement		3.1
Human Systems Integration		13.6
Human Systems Interfaces for Ground Systems		9.2
Hybrid-Electric Propulsion Systems		9.3
Individual and Group Protection	3.1	3.4
Inertial Navigation Systems and Related Components	7.2	16.1
Information Communications	8.1,8.11	10.1
Information Exchange	8.8	10.2
Information Management and Control		10.5

	WST	DCT
Information Processing	8.3,8.6,8.9,8.10	
Information Security	8.5	10.4
Information Sensing		10.7
Information Systems Facilities		10.6
Information Visualization and Representation	8.4	10.8
Integrated Systems		19.11
Integration and Qualification		19.7
Ionizing Radiation		20.4
Kinetic Energy Weapons		6.5
Land Mine Countermeasures		17.7
Lasers	4.1,15.7	11.1
Launch Vehicles for Space Systems		19.3
Lethality and Vulnerability		2.8
Magnetic Materials	11.3	14.7
Magnetometers and Magnetic Gradiometers	15.8	16.4
Management of Trauma, Stress, and Treatment		4.3
Manufacturing of Nuclear Components	13.3	
Metrology	10.3	12.3
Microelectronics	5.5	8.4
Micromachined Materials and Structures (Including MEMS)		14.6
Mines	2.6	2.10
Missile Systems		2.11
Mobile Electric Platform Power	14.2	
Modeling and Simulation	8.7	10.9
Multifunction Systems and Subsystems		18.2
Nanoelectronics		8.5
Neutral Particle Beam		6.2
Non-Destructive Inspection and Evaluation	10.4	12.4
Non-lethal Weapons		2.13
Nuclear Fission Reactors	13.1	
Nuclear Weapons Development Testing	13.3	
Obscurants	15.9	5.5
Ocean Salvage		13.1
Optical Materials and Processes		11.3
Optics	9.3,9.4	11.2

	WST	DCT
Optoelectronics and Photonics Technology		11.5
Opto-Electronics	5.6	11.5
Plutonium Extraction (Reprocessing)	13.2	
Power and Thermal Management	17.3	19.5
Power Conditioning		7.3
Precise Time and Frequency (PT&F)		16.5
Production Equipment	10.5	12.5
Propulsion for Space Systems	17.4	19.6
Propulsors and Propulsion Systems	12.1	13.2
Pulsed and High Power Systems	14.3	
Radar	15.10	17.6
Radio and Data-Based Referenced Navigation Systems	7.3	16.3
Robotics	10.6	12.6
Safing, Arming, Fuzing, and Firing (SAFF)	2.4, 13.3	2.3
Sea and Littoral Region Mine Countermeasures		17.8
Sensors for Ground Systems		9.4
Sensors for Space Systems	17.5	19.8
Shock Waves		20.1
Signature Control and Survivability	12.2	13.3
Signature Control for Ground Systems		9.5
Situational Awareness/Combat Identification		16.6
Small- and Medium-Caliber Weapons Systems	2.1	2.1
Smart Materials and Structures		14.5
Space Avionics and Autonomy		19.1
Space Based Lasers		19.12
Space Optics	17.2	19.4
Special Function Materials	11.6	14.4
Structural Materials, High-Strength and High-Temperature	11.5	14.3
Structures for Ground Systems		9.6
Structures for Space		19.10
Subsurface and Deep Submergence Vehicles	12.3	13.4
Supporting Technologies and Applications	4.2	11.4
Supporting Technologies for Directed Energy (DE) Systems	4.2	
Survivability in Space		19.9
Survivability, Armor and Warhead Defeat Systems		2.12
Systems Integration for Ground Systems		9.7
Systems Integration		18.3

	WST	DCT
Tactical Medical Command/Control		4.4
Tactical Propulsion		2.2
Tailored Property Materials	16.1	18.1
Thermal Radiation		20.3
Tritium Production	13.2	
Underground Weapons Effects Simulation		20.6
Uranium Enrichment Processes	13.2	
Vetronics	6.2	9.8
Warhead Technologies (conventional)	2.2	2.7